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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/458,921	09/458,921 12/10/1999		MOHAMMAD PEYRAVIAN	P-4541.001	9480	
24112	7590	04/21/2005		EXAM	INER	
COATS & I	BENNE	TT, PLLC	MOORTHY,	MOORTHY, ARAVIND K		
RALEIGH, NC 27602				ART UNIT	PAPER NUMBER	
				2131		
			DATE MAILED: 04/21/200	DATE MAILED: 04/21/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)
		09/458,92	1	PEYRAVIAN ET AL.
Office Action S	Summary	Examiner		Art Unit
		Aravind K.	Moorthy	2131
The MAILING DATE of Period for Reply	this communicati	on appears on the	cover sheet with t	he correspondence address
A SHORTENED STATUTOF THE MAILING DATE OF TH  - Extensions of time may be available u after SIX (6) MONTHS from the mailin  - If the period for reply specified above  - If NO period for reply is specified above  - Failure to reply within the set or extending reply received by the Office later earned patent term adjustment. See 3	IS COMMUNICAT nder the provisions of 37 g date of this communica s less than thirty (30) day e, the maximum statutory ded period for reply will, b han three months after th	FION. CFR 1.136(a). In no ever tion. s, a reply within the statur period will apply and will y statute, cause the appli	nt, however, may a reply fory minimum of thirty (30 expire SIX (6) MONTHS cation to become ABAND	be timely filed  )) days will be considered timely.  from the mailing date of this communicatio  DONED (35 U.S.C. § 133).
Status				
1) Responsive to commu	nication(s) filed or	n 03 December 20	04.	
2a) ☐ This action is FINAL.		This action is no		
<i>'</i> —	•			, prosecution as to the merits i
closed in accordance v		•		•
	p u	<u></u>	, , , , , , , , , , , , , , , , , , , ,	, ————————————————————————————————————
Disposition of Claims				
4)⊠ Claim(s) <u>1-50</u> is/are pe	ending in the appli	cation.		
4a) Of the above claim	(s) is/are w	ithdrawn from cor	sideration.	
5)⊠ Claim(s) <u>1-28 and 47-</u>	50 is/are allowed.			
6)⊠ Claim(s) <u>29-46</u> is/are r	ejected.			
7) Claim(s) is/are	objected to.			
8) Claim(s) are su	bject to restriction	and/or election re	quirement.	
Application Papers				
9) The specification is obj	ected to by the Ex	vaminer		
10)⊠ The drawing(s) filed on			econted or b\□ of	piected to by the Evaminer
Applicant may not reques				
• • • • • • • • • • • • • • • • • • • •				
•				is objected to. See 37 CFR 1.121( ffice Action or form PTO-152.
11) Ine oath or declaration	is objected to by	the Examiner. No	te the attached O	nice Action of form PTO-132.
Priority under 35 U.S.C. § 119				
12) Acknowledgment is ma	ide of a claim for f	oreign priority und	ler 35 U.S.C. § 11	19(a)-(d) or (f).
a) ☐ All b) ☐ Some * c)				
1. Certified copies		uments have beer	n received.	
2. Certified copies				lication No
<del></del>	•			ceived in this National Stage
·	•	Bureau (PCT Rule		J
* See the attached detaile				ceived.
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Attachment(s)				
1) Notice of References Cited (PTO-				mary (PTO-413)
		1810	Paper No(s)/M	fail Date
2) Notice of Draftsperson's Patent D	•			mal Datent Application (DTO 453)
	•			mal Patent Application (PTO-152)

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#### **DETAILED ACTION**

1. This is in response to the appeal brief filed on 3 December 2004.

2. Claims 1-50 are pending in the application.

3. Claims 29-46 have been rejected.

4. Claims 1-28 and 47-50 have been allowed.

## Response to Arguments

5. In view of the appeal brief filed on 3 December 2004, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
  - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 29-46 are rejected under 35 U.S.C. 102(e) as being anticipated by Levine U.S. Patent No. 6,393,566 B1.

As to claim 29, Levine discloses a method for time stamping a document comprising:

- a. receiving a time stamp request at an outside agency at a first time, the time stamp request including identifying data associated with the document [column 3, lines 54-67];
- b. creating at the outside agency a time stamp receipt based on the identifying data and a time indication [column 3, lines 41-53]; and
- c. generating at the outside agency a message authentication code based on the time stamp receipt and a secret key [column 4, lines 22-28]; and
- d. transmitting the time stamp receipt and the message authentication code to the requestor [column 5, lines 39-65].

As to claim 30, Levine discloses that the identifying data comprises a digital representation of at least a portion of the document [column 5, lines 39-65].

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As to claim 31, Levine discloses that the identifying data comprises a digital sequence derived by application of a deterministic function to at least a portion of the document [column 5, lines 39-65].

As to claim 32, Levine discloses that the digital sequence is a hash value derived by application of a one-way hashing function to at least a portion of the document [column 5, lines 39-65].

As to claim 33, Levine discloses that the time stamp receipt includes a copy of at least a portion of the identifying data concatenated with the time indication [column 5, lines 39-65].

As to claim 34, Levine discloses that the time stamp receipt includes a digital sequence derived from the identifying data concatenated with the time indication [column 3, lines 41-53].

As to claim 35, Levine discloses that the time stamp request further includes an identification number associated with the requestor [column 5, lines 25-37].

As to claim 36, Levine discloses that the message authentication code comprises a numeric representation generated by application of a deterministic function to the time stamp receipt and the secret key concatenated together [column 6, lines 9-29].

As to claim 37, Levine discloses generating a second message authentication code based on the first message authentication code and a second secret key [column 5, lines 39-65].

As to claim 38, Levine discloses transmitting the second message authentication codes to the requestor [column 6, lines 9-29].

As to claim 39, Levine discloses the step of encrypting the first secret key to generate an encrypted key [column 7 line 57 to column 8 line 9].

As to claim 40, Levine discloses transmitting the encrypted key to the requestor [column 7 line 57 to column 8 line 9].

As to claim 41, Levine discloses a method for time stamping documents comprising:

a. receiving at an outside agency a certification request, the certification request including a time stamp receipt and a message authentication code generated on the time stamp receipt [column 4, lines 22-28];

b. validating the message authentication code at the outside agency using a secret key [column 5, lines 12-38];

c. certifying the time stamp receipt if the message authentication code is valid using a cryptographic signature scheme [column 5, lines 12-38].

As to claim 42. Levine discloses that the step of certifying the time stamp receipt includes signing the message authentication code at the outside agency using a cryptographic signature scheme [column 5, lines 12-23].

As to claim 43, Levine discloses that the step of certifying the time stamp record includes signing the time stamp receipt at the outside agency using a cryptographic signature scheme [column 5, lines 12-23].

As to claim 44, Levine discloses including the step of transmitting the certified time stamp receipt to the requestor [column 5, lines 39-65].

As to claim 45, Levine discloses that certifying the time stamp receipt at the outside agency comprises signing the time stamp receipt with a private signature key [column 5, lines 39-65].

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As to claim 46, Levine discloses that certifying the time stamp receipt at the outside agency comprises signing the message authentication code with a private signature key [column 5, lines 39-65].

### Allowable Subject Matter

#### 7. Claims 1-28 and 47-50 are allowed.

As to claim 1, prior art does not disclose or fairly teach e. receiving a certification request at the outside agency at a second time, the certification request including the time stamp receipt and the message authentication code. Prior art does not disclose or fairly teach f. validating the message authentication code at the outside agency using the secret key. Prior art does not disclose or fairly teach g. certifying the time stamp receipt at the outside agency using a cryptographic signature scheme if the message authentication code is valid.

As to claim 15, prior art does not disclose or fairly teach d. encrypting the first secret key with a second secret key to generate a key message. Prior art does not disclose or fairly teach e. generating a second message authentication code based on the first message authentication code and the first secret key using a third secret key. Prior art does not disclose or fairly teach f. transmitting the time stamp receipt, the first message authentication code, the second message authentication code, and the end key message to the requestor. Prior art does not disclose or fairly teach g. receiving at the outside agency at a second time a certification request, the certification request including the time stamp receipt, the first message authentication code, the second message authentication code, and the encrypted key message. Prior art does not disclose or fairly teach h. decrypting at the outside agency the encrypted key message to recover the first secret key. Prior art does not disclose or fairly teach i. validating the second message

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authentication code at the outside agency using the third secret key. Prior art does not disclose or

fairly teach j. validating the first message authentication code at the outside agency using the first

secret key if the second message authentication code is valid. Prior art does not disclose or fairly

teach k. certifying the time stamp receipt at the outside agency using a cryptographic signature

scheme if the first message authentication code is valid.

Any claims not directly addressed are allowed on the virtue of their dependency.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Aravind K. Moorthy whose telephone number is 571-272-3793.

The examiner can normally be reached on Monday-Friday, 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aravind K Moorthy April 15, 2005

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